TEST REPORT OF FINE AGGREGATE

Date: 27-05-17

Lab ID	:	**CP-2017-05-22-08**
Customer	:	Assistant Executive Engineer, Yelahanlka Sub division, BBMP, Bangalore.
Address	:	Yelahanlka Sub division, BBMP, Bangalore.
Project Name	:	Improvements to roads drains at Surya Vamshi layout in ward No.02 of yelahanka Sub Division.
Agency	:	Sri. G. Venkategowda, No.531/1, 14th A Cross, A sector, Yelahanka New Town, Bangalore-64.
Customer's Reference	:	EE(YNK.D)E-PMT-08/W.O/32/2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	22-05-17
Sample ID No	:	2017-05-22-08/03
Sample Type	:	Fine Aggregate
Reference to BIS codes	:	IS 383 : 2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1, 3) RA2012 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption
Date of test	:	22-05-17
Total weight taken	:	1000 grams

Sl.no	Sieve Size	Weight Retained (gms)	Cumulative Weight Retained (gms)	% Cumulative Weight Retained	% Passing	Requirement as per IS 383:2016			
						Grading Zone I	Grading Zone II	Grading Zone III	Grading Zone IV
1	10 mm	0	0	0	100	100	100	100	100
2	4.75 mm	19	19	1.9	98.1	90-100	90-100	90-100	95-100
3	2.36 mm	48	67	6.7	93.3	60-95	75-100	85-100	95-100
4	1.18 mm	67	134	13.4	86.6	30-70	55-90	75-100	90-100
5	600 micron	287	421	42.1	57.9	15-34	35-59	60-79	80-100
6	300 micron	298	719	71.9	28.1	5-20	8-30	12-40	15-50
7	150 micron	205	924	92.4	7.6	0-10	0-10	0-10	0-15
8	Pan	76	1000	100	0	---	---	---	---
Result :The tested Sample Conforms to Grading Zone II									

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TEST REPORT OF FINE AGGREGATE

Lab ID : **CP-2017-05-22-08** **Date: 27-05-17**

Sample ID No : 2017-05-22-08/03

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS 383:2016
1	Water Absorption(%)	1.93	–
2	Specific Gravity	2.54	–
3	Material finer than 75 micron(%)	4.7	Uncrushed fine Aggregate Max 3%, Crushed Fine aggregate Max 15%, Mixed Fine aggregate Max 12%, Manufactured Fine aggregate Max 10%

Note:
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Quality Manager

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TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2017-05-22-08** **Date: 27-05-2017**
Customer	:	Assistant Executive Engineer, Yelahanlka Sub division, BBMP, Bangalore.
Address	:	Yelahanlka Sub division, BBMP, Bangalore.
Project Name	:	Improvements to roads drains at Surya Vamshi layout in ward No.02 of yelahanka Sub Division.
Agency	:	Sri. G. Venkategowda, No.531/1, 14th A Cross, A sector, Yelahanka New Town, Bangalore-64.
Customer Reference	:	EE(YNK.D)E-PMT-08/W.O/32/2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	22-05-17
Sample ID No	:	2017-05-22-08/02(a)
Sample Type/ Size	:	20mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2011 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	22-05-17

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 20MM DOWN COARSE AGGREGATE:

Total weight taken : **5000** **grams**

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	40 mm	0	0	0	100	100
2	20 mm	176	176	3.52	96.48	90-100
3	10 mm	2166	2342	46.84	53.16	25-55
4	4.75 mm	2544	4886	97.72	2.28	0-10
5	Pan	114	5000	100	0	–

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TEST REPORT ON COARSE AGGREGATES

Lab ID : CP-2017-05-22-08 **Date: 27-05-2017**

Sample ID No : 2017-05-22-08/02(a)

PHYSICAL PROPERTIES

SLno	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	11.4	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	13.9	
3	Specific Gravity	2.66	–
4	Bulk Density(Loose) (Kg/l)	1.52	–
5	Bulk Density(Compacted) (Kg/l)	1.59	–
6	Water Absorption(%)	0.24	–
7	Aggregate crushing Value(%)	23.4	Max 30% for Aggregates to be used in concrete for wearing Surface, In case Aggregate Crushing Value Exceeds 30% then the test for ten percent fines should be conducted for Aggregates to be used in concrete other than for wearing Surface.
8	Aggregate Impact Value(%)	22.8	30% for Aggregates to be used in concrete for wearing Surface, 45% for Aggregates to be used in concrete other than for wearing Surface.

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TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID	:	CP-2017-05-22-08 **Date: 24-05-2017**
Customer	:	Assistant Executive Engineer, Yelahanlka Sub division, BBMP, Bangalore.
Address	:	Yelahanlka Sub division, BBMP, Bangalore.
Project Name	:	Improvements to roads drains at Surya Vamshi layout in ward No.02 of yelahanka Sub Division.
Agency	:	Sri. G. Venkategowda, No.531/1, 14th A Cross, A sector, Yelahanka New Town, Bangalore-64.
Customer's Reference	:	EE(YNK.D)E-PMT-08/W.O/32/2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	22-05-17
Sample ID No	:	2017-05-22-08/01
Sample Type	:	ACC 53grade
Reference to BIS codes	:	IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification , IS 4031 (Part 1,2 3,4,5, 6,11):1988 IS 4031 Part 1 DETERMINATION OF FINENESS BY DRY SIEVING, Clause 4.4 IS 4031 Part 2, Determination of Fineness by Blaine Air Permeability Method, Clause 5 IS 4031 Part 3, Determination of Soundness, Clause 5,Clause 6 IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 5, Determination of Initial & Final Setting Time, Clause 5 IS 4031 Part 11,DETERMINATION OF DENSITY , Clause 6
Date of test	:	23-05-17

Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	Fineness by dry sieving (%)	3.04	_
2	Finess by Air permeablity method (m^2/kg, Min)	289.1	225m^2/kg, Min
3	Density (gm/cc)	3.18	_
4	Standard Consistency (%)	29.0%	Not specified
5	Initial Setting time	165 minutes	Not less than 30 minutes
6	Final Setting time	245 minutes	Not more than 600 minutes
7	Soundness (Le Chatelier's Method)	1.5mm	Not more than 10 mm

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TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID	:	**CP-2017-05-22-08** **Date: 20-06-2017**
Customer	:	Assistant Executive Engineer, Yelahanlka Sub division, BBMP, Bangalore.
Address	:	Yelahanlka Sub division, BBMP, Bangalore.
Project Name	:	Improvements to roads drains at Surya Vamshi layout in ward No.02 of yelahanka Sub Division.
Agency	:	Sri. G. Venkategowda, No.531/1, 14th A Cross, A sector, Yelahanka New Town, Bangalore-64.
Customer's Reference	:	EE(YNK.D)E-PMT-08/W.O/32/2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	22-05-17
Sample ID No	:	2017-05-22-08/01
Sample Type	:	ACC 53grade
Reference to BIS codes	:	IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification , IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 6, Determination of Compressive Strength, Clause 6
Date of test	:	23-05-17

Compressive Strength

SLNo.	Physical properties	Results	Requirement as per IS 12269: 2013
1	3 Days	29.5N/mm^2	Not less than 27 N/mm^2
2	7 Days	39.5N/mm^2	Not less than 37 N/mm^2
3	28 Days	55.5N/mm^2	Not less than 53 N/mm^2

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TEST REPORT ON COARSE AGGREGATES

Lab ID	:	CP-2017-05-22-08 **Date: 27-05-2017**
Customer	:	Assistant Executive Engineer, Yelahanlka Sub division, BBMP, Bangalore.
Address	:	Yelahanlka Sub division, BBMP, Bangalore.
Project Name	:	Improvements to roads drains at Surya Vamshi layout in ward No.02 of yelahanka Sub Division.
Agency	:	Sri. G. Venkategowda, No.531/1, 14th A Cross, A sector, Yelahanka New Town, Bangalore-64.
Customer's Reference	:	EE(YNK.D)E-PMT-08/W.O/32/2017-18
Source of Sample	:	Sample supplied by Agency
Sample condition	:	Satisfactory
Date of Receipt	:	22-05-17
Sample ID No	:	2017-05-22-08/02(b)
Sample Type	:	40mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2011 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	22-05-17

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 40MM DOWN COARSE AGGREGATE:

Total weight taken : 15000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	80 mm	0	0	0.0	100	100
2	40 mm	744	744	5.0	95.0	90-100
3	20 mm	7765	8509	56.7	43.3	30-70
4	10 mm	4598	13107	87.4	12.6	10-35
5	4.75 mm	1390	14497	96.6	3.4	0-5
6	Pan	503	15000	100.0	0	--

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TEST REPORT ON COARSE AGGREGATES

Lab ID : CP-2017-05-22-08 **Date: 27-05-2017**

Sample ID No : 2017-05-22-08/02(b)

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	10.8	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	11.8	
3	Specific Gravity	2.61	_
4	Bulk Density(Loose) (Kg/l)	1.48	_
5	Bulk Density(Compacted) (Kg/l)	1.55	_
6	Water Absorption(%)	0.19	_

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TEST REPORT ON PHYSICAL REQUIREMENTS OF SOLID CONCRETE BLOCKS

Lab ID	:	**CP-2017-05-22-08** **Date: 27-05-17**
Customer	:	Assistant Executive Engineer, Yelahanlka Sub division, BBMP, Bangalore.
Address	:	Yelahanlka Sub division, BBMP, Bangalore.
Project Name	:	Improvements to roads drains at Surya Vamshi layout in ward No.02 of yelahanka Sub Division.
Agency	:	Sri. G. Venkategowda, No.531/1, 14th A Cross, A sector, Yelahanka New Town, Bangalore-64.
Customer's Reference	:	EE(YNK.D)E-PMT-08/W.O/32/2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	22-05-17
Sample ID No	:	2017-05-22-08/04
Sample Type/Size	:	Solid concrete blocks of size (400X200X200)mm
Reference to BIS codes	:	IS : 2185 (Part 1) : 2005(RA 2010) Concrete Masonry Specification Part 1:Hollow and Solid Concrete Blocks (Dimensions -Annex-B, Clause 9.2 and 10 , Block density Annex -C Clause 9.3 and10, Compressive strength Annex -D Clause 9.4 and 10, Water absorption Annex - E Clause 9.5 and 10)
Date of test	:	22-05-17

BLOCK DENSITY:

Sl. No.	Measurement of overall Dimensions of Individual Blocks			Overall Volume of the Block in Cubic Centimetres	Weight of Oven Dried Block in Kilograms to the nearest 10 Gram	Block Density in Kg/cum*10^6	Avg.Block Density in (Kg/cum)	As per IS 2185 (Part 1):2005 (RA 2010)
	Length	Breadth	Height					
	mm	mm	mm	(Cm^3)	Kg	Kg/m^3	Kg/m^3	
1	403	201	202	16363	31.770	1941.6	1947.2	Not less than 1800Kg/m^3
2	401	202	200	16200	32.090	1980.8		
3	402	202	202	16403	31.480	1919.1		

WATER ABSORPTION:

Sl. No.	Wet weight after water absorption	Dry weight (Oven dry)	Water Absorption	Avg.Water Absorption	As per IS 2185 (Part 1):2005 (RA 2010)
	kg	kg	%	%	
1	33.870	32.840	3.14	3.33	Shall not be more than 10% by mass
2	33.420	32.200	3.79		
3	33.180	32.190	3.08		

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Lab ID : **CP-2017-05-22-08** **Date: 27-05-17**

Sample ID No : **2017-05-22-08/04**

DIMENSION ANALYSIS

SLno	Length mm	Breadth mm	Height mm	Requirement as per IS 2185(Part 1):2005
1	402	199	203	Length : ± 5mm Breadth : ± 3mm Height : ± 3mm
2	403	201	201	
3	402	201	202	
4	401	203	203	
5	402	200	202	
6	400	198	201	
7	401	202	203	
8	402	201	199	
9	399	203	202	
10	402	201	203	
11	401	203	199	
12	402	200	203	
13	404	202	201	
14	400	201	203	
15	403	202	200	
16	401	200	201	
17	400	199	201	
18	402	200	203	
19	400	201	201	
20	402	203	203	
Average of 20 blocks	401	201	202	

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Lab ID : CP-2017-05-22-08 **Date: 27-05-17**

Sample ID No : 2017-05-22-08/04

COMPRESSIVE STRENGTH:

Sl. No.	Size of solid block		Area	Failure Load	Compressive strength	Average Compressive strength
	Length	Breadth				
	mm	mm	(mm^2)	(KN)	N/mm^2	(N/mm^2)
1	402	199	79998	312.5	3.9	4.4
2	403	201	81003	376.8	4.7	
3	402	201	80802	392.6	4.9	
4	401	203	81403	366.4	4.5	
5	402	200	80400	372.3	4.6	
6	400	198	79200	332.7	4.2	
7	401	202	81002	382.2	4.7	
8	402	201	80802	310.6	3.8	

As per IS Requirements (Table 2, Clause 5.1, 5.2 and 9.4)

Compressive strength		
Grade	Minimum average	Minimum Individual units.
C (5.0)	5.00 N/mm^2	4.00 N/mm^2
C (4.0)	4.00 N/mm^2	3.20 N/mm^2

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TEST REPORT OF CEMENT CONCRETE KERB STONE

Lab ID	:	**CP-2017-05-30-01**	**Date: 03-06-17**
Customer	:	Assistant Executive Engineer, Yelahanlka Sub division, BBMP, Bangalore.	
Address	:	Yelahanlka Sub division, BBMP, Bangalore.	
Project Name	:	Improvements to roads drains at Surya Vamshi layout in ward No.02 of yelahanka Sub Division.	
Agency	:	Sri. G. Venkategowda, No.531/1, 14th A Cross, A sector, Yelahanka New Town, Bangalore-64.	
Customer's Reference	:	EE(YNK.D)E-PMT-08/W.O/32/2017-18	
Source of Sample	:	Sample supplied by Agency	
Sample Condition	:	Satisfactory	
Date of Receipt	:	30-05-17	
Sample ID No	:	2017-05-30-01/02	
Sample Type /Size	:	CC Kerb Stone/ 450*165*400mm	
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete	
Date of test	:	30/05/2017	

SL No.	Identification Mark	Diameter of the core	Height of the core	Weight of the core	Area	Failure Load	Core Compressive strength	Corrected Cylinder Compressive strength	Equivalent Cube Compressive strength
		(mm)	(mm)	Kg	(Sq.mm)	(KN)	(N/mm2)	(N/mm2)	(N/mm2)
1	A	100.14	165.52	3.857	7875	161.2	20.5	19.0	23.8
2	B	100.05	165.52	3.814	7860	155.4	19.8	19.8	24.7
3	C	100.12	165.51	3.928	7871	159.1	20.2	20.2	25.3

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TEST REPORT OF PRECAST COVER SLAB

Lab ID	:	**CP-2017-05-30-01** **Date: 03-06-17**
Customer	:	Assistant Executive Engineer, Yelahanlka Sub division, BBMP, Bangalore.
Address	:	Yelahanlka Sub division, BBMP, Bangalore.
Project Name	:	Improvements to roads drains at Surya Vamshi layout in ward No.02 of yelahanka Sub Division.
Agency	:	Sri. G. Venkategowda, No.531/1, 14th A Cross, A sector, Yelahanka New Town, Bangalore-64.
Customer's Reference	:	EE(YNK.D)E-PMT-08/W.O/32/2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	30-05-17
Sample ID No	:	2017-05-30-01/01
Sample Type /Size	:	Precast Cover Slab
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete
Date of test	:	30/05/2017

Sl. No.	Identification Mark	Diameter of the core	Height of the core	Weight of the core	Area	Failure Load	Core Compressive strength	Corrected Cylinder Compressive strength	Equivalent Cube Compressive strength
		(mm)	(mm)	(mm)	(Sq.mm)	(KN)	(N/mm^2)	(N/mm^2)	(N/mm^2)
1	Cover Slab-1	75.12	100.51	2.147	4431	82.1	18.5	17.2	21.5
2	Cover Slab-2	75.22	100.49	2.118	4443	85.1	19.2	17.8	22.3
3	Cover Slab-3	75.18	100.50	2.158	4438	87.5	19.7	18.3	22.9

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